

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P251216

Luminaire Tested: **LSR8B60D010 EC8B609727 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B609727 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4427.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

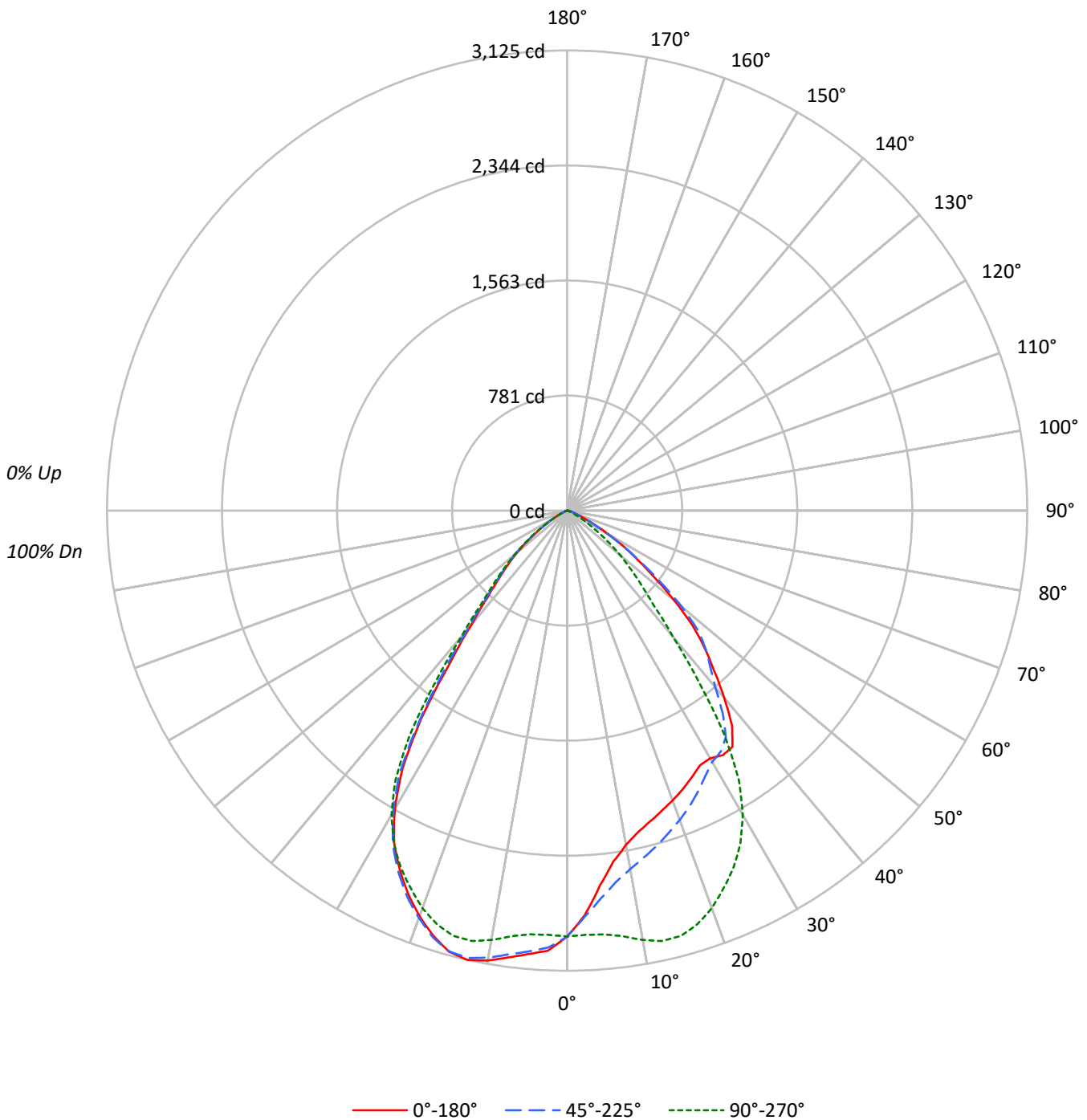
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.5	6.1
10°-20°	778.5	17.6
20°-30°	1130.0	25.5
30°-40°	1112.9	25.1
40°-50°	697.6	15.8
50°-60°	336.6	7.6
60°-70°	81.5	1.8
70°-80°	16.5	0.4
80°-90°	3.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2178.1	49.2
0°-40°	3291.0	74.3
0°-60°	4325.3	97.7
0°-90°	4427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4427.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2892	2892	2892	2892	2892	
5°	2556	2643	2888	3005	3024	237
15°	2184	2356	2989	3099	3101	617
25°	2000	2104	2675	2711	2692	926
35°	1958	1878	1867	1761	1732	1185
45°	1322	1331	706	676	657	1011
55°	587	606	257	254	242	540
65°	138	136	38	33	29	157
75°	33	29	8	4	3	37
85°	10	8	2	0	0	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1
2.5°	2749.2	2731.7	2699.1	2738.6	2738.6	2716.5	2760.6	2734.0	2755.3	2788.7	2759.1
5°	2556.2	2541.8	2514.4	2556.2	2561.5	2541.0	2594.2	2574.4	2605.6	2646.6	2642.8
7.5°	2403.5	2385.2	2360.2	2403.5	2411.8	2398.2	2449.1	2439.9	2481.0	2534.2	2543.3
10°	2303.9	2284.9	2262.9	2302.4	2308.5	2299.4	2351.0	2345.7	2386.0	2447.5	2471.9
12.5°	2233.3	2217.3	2193.0	2234.8	2241.6	2228.7	2277.3	2275.1	2316.8	2381.4	2411.8
15°	2183.9	2164.9	2142.8	2178.6	2187.7	2173.2	2219.6	2215.0	2257.6	2321.4	2355.6
17.5°	2137.5	2120.0	2097.2	2130.7	2139.8	2124.6	2170.2	2162.6	2199.1	2259.9	2294.8
20°	2094.2	2075.2	2054.7	2088.9	2094.2	2076.7	2122.3	2112.4	2145.1	2201.3	2235.5
22.5°	2049.4	2029.6	2008.3	2041.8	2047.1	2029.6	2071.4	2060.0	2090.4	2141.3	2172.5
25°	2000.0	1981.7	1960.5	1991.6	1996.2	1977.2	2021.3	2006.8	2033.4	2078.2	2104.1
27.5°	1950.6	1933.1	1909.6	1941.5	1943.8	1925.5	1965.8	1946.0	1968.1	2009.1	2031.1
30°	1942.2	1922.5	1898.2	1924.0	1924.8	1901.2	1939.2	1915.6	1927.8	1958.2	1971.1
32.5°	1968.8	1949.1	1924.0	1945.3	1943.0	1917.2	1953.6	1924.8	1928.6	1944.5	1941.5
35°	1958.2	1934.6	1905.0	1927.8	1927.8	1896.6	1933.1	1898.9	1895.1	1897.4	1878.4
37.5°	1837.4	1819.1	1791.0	1813.1	1810.8	1787.2	1815.3	1787.2	1774.3	1769.0	1734.8
40°	1659.6	1637.5	1616.2	1639.8	1642.1	1617.0	1653.5	1621.6	1617.8	1602.6	1562.3
42.5°	1479.5	1471.9	1451.4	1471.1	1481.7	1460.5	1490.9	1475.7	1477.9	1474.1	1436.2
45°	1322.2	1309.3	1294.1	1316.9	1323.7	1313.1	1343.5	1334.3	1343.5	1362.4	1331.3
47.5°	1152.7	1139.8	1123.1	1147.4	1159.6	1139.8	1165.6	1162.6	1176.3	1209.0	1205.9
50°	948.3	939.2	936.2	939.2	946.8	937.7	955.9	956.7	965.8	1010.6	1013.7
52.5°	750.8	748.5	737.8	747.7	747.7	733.3	751.5	743.2	752.3	782.7	802.4
55°	587.4	585.1	578.3	587.4	577.5	572.2	577.5	569.1	562.3	585.9	606.4
57.5°	457.4	449.8	441.5	445.3	444.5	433.1	439.2	429.3	424.0	432.4	450.6
60°	326.0	323.7	316.1	319.9	322.9	314.6	320.7	316.1	307.0	313.8	314.6
62.5°	216.6	218.1	213.5	214.3	212.0	210.5	214.3	216.6	214.3	211.2	212.0
65°	137.5	136.8	136.0	136.8	138.3	135.3	137.5	139.1	136.8	136.8	136.0
67.5°	91.2	88.9	86.6	88.1	89.7	87.4	89.7	88.9	89.7	88.9	86.6
70°	61.5	60.8	60.0	60.8	60.8	59.3	60.8	60.0	60.8	60.0	57.8
72.5°	44.8	44.8	44.1	44.8	44.8	43.3	44.1	42.6	43.3	42.6	41.0
75°	33.4	33.4	32.7	33.4	32.7	31.9	32.7	31.9	30.4	30.4	28.9
77.5°	24.3	24.3	24.3	24.3	24.3	23.6	23.6	22.8	22.0	21.3	21.3
80°	18.2	17.5	17.5	17.5	17.5	16.7	17.5	16.7	16.0	15.2	14.4
82.5°	12.9	13.7	12.9	12.9	12.9	12.2	12.9	12.2	12.2	11.4	9.9
85°	9.9	9.9	9.9	9.9	9.9	9.1	9.1	9.1	8.4	8.4	7.6
87.5°	5.3	5.3	5.3	6.1	5.3	5.3	5.3	4.6	4.6	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P251216

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1
2.5°	2798.6	2802.4	2794.0	2807.0	2857.1	2816.8	2833.6	2838.9	2876.9	2883.7	2879.2
5°	2692.2	2708.9	2719.6	2748.5	2803.9	2775.0	2804.7	2823.7	2872.3	2888.3	2892.1
7.5°	2608.6	2643.6	2669.4	2716.5	2781.9	2759.9	2804.7	2835.8	2895.1	2915.6	2925.5
10°	2546.3	2599.5	2644.4	2708.9	2782.6	2768.2	2826.7	2870.8	2936.9	2961.2	2973.4
12.5°	2499.2	2563.8	2623.8	2705.9	2785.7	2778.8	2849.5	2899.7	2969.6	2993.9	3008.3
15°	2447.5	2522.0	2591.9	2683.9	2769.7	2768.2	2844.2	2897.4	2968.8	2989.3	3003.0
17.5°	2386.0	2465.8	2542.5	2642.1	2727.2	2728.7	2805.4	2857.9	2927.8	2944.5	2953.6
20°	2323.7	2402.7	2479.5	2582.0	2665.6	2667.9	2743.1	2791.8	2858.6	2872.3	2874.6
22.5°	2257.6	2331.3	2408.0	2509.9	2590.4	2591.9	2666.4	2712.0	2769.0	2775.8	2781.9
25°	2182.3	2254.5	2326.7	2427.8	2504.5	2509.1	2576.7	2617.0	2669.4	2674.7	2677.0
27.5°	2104.1	2163.4	2232.5	2319.1	2396.6	2393.6	2457.4	2503.0	2550.1	2547.1	2546.3
30°	2025.1	2074.4	2117.0	2200.6	2257.6	2259.9	2319.9	2341.9	2391.3	2385.2	2384.5
32.5°	1969.6	1982.5	1993.9	2036.5	2090.4	2071.4	2112.4	2139.8	2174.0	2171.7	2172.5
35°	1867.8	1844.2	1810.0	1816.1	1848.8	1819.1	1841.2	1840.4	1875.4	1867.0	1876.9
37.5°	1693.8	1626.9	1550.9	1507.6	1513.7	1476.4	1468.8	1487.1	1499.2	1475.7	1484.0
40°	1508.3	1409.6	1291.0	1192.2	1186.9	1140.6	1132.2	1114.0	1137.5	1117.8	1123.8
42.5°	1371.6	1240.9	1085.1	965.0	939.2	900.4	877.7	874.6	881.5	867.8	864.0
45°	1266.7	1127.6	949.1	811.5	782.7	740.9	718.1	709.7	710.5	705.9	702.1
47.5°	1143.6	1003.8	822.9	682.4	649.7	610.2	587.4	582.1	585.1	579.0	574.5
50°	973.4	848.0	683.1	554.7	525.8	497.0	478.7	473.4	472.6	468.1	465.0
52.5°	790.3	686.2	543.3	436.2	410.3	382.2	369.3	362.5	363.2	358.7	354.1
55°	611.7	547.1	421.0	329.8	306.2	284.2	272.0	263.7	261.4	256.8	254.6
57.5°	455.2	411.9	315.3	237.8	224.2	202.9	190.7	180.8	179.3	177.0	176.3
60°	319.1	288.0	221.9	169.5	153.5	140.6	128.4	118.5	114.0	113.2	110.9
62.5°	206.7	187.7	145.9	113.2	101.1	91.9	79.8	72.9	69.9	66.9	67.6
65°	128.4	114.0	91.2	72.9	66.1	59.3	50.2	44.1	41.0	38.0	38.8
67.5°	79.8	71.4	57.8	47.1	42.6	37.2	30.4	25.8	23.6	21.3	19.8
70°	54.0	46.4	39.5	33.4	30.4	26.6	22.0	18.2	16.7	15.2	13.7
72.5°	38.0	34.2	28.9	25.1	22.8	19.8	16.7	14.4	12.9	11.4	9.9
75°	27.4	24.3	21.3	18.2	16.7	15.2	12.9	11.4	9.9	8.4	6.8
77.5°	19.8	17.5	15.2	13.7	12.9	10.6	9.1	8.4	7.6	6.1	4.6
80°	13.7	12.2	9.9	9.1	9.1	7.6	6.8	6.1	5.3	3.8	3.0
82.5°	9.1	8.4	7.6	6.8	6.1	5.3	5.3	3.8	3.0	2.3	1.5
85°	6.8	6.1	5.3	4.6	4.6	3.8	3.0	2.3	2.3	1.5	0.8
87.5°	3.8	3.8	3.0	2.3	2.3	1.5	1.5	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P251216

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1
2.5°	2917.9	2920.2	2933.1	2923.2	2948.3	2966.5	2957.4	2977.9	2971.1	2969.6	2993.1
5°	2937.7	2943.0	2960.5	2951.3	2978.7	2998.5	2989.3	3012.1	3005.3	3003.8	3028.1
7.5°	2975.7	2981.0	2996.2	2988.6	3017.4	3034.9	3023.5	3048.6	3039.5	3038.7	3062.3
10°	3023.5	3031.1	3044.0	3036.4	3063.0	3078.2	3066.8	3091.2	3082.8	3079.0	3104.8
12.5°	3059.2	3064.6	3077.5	3071.4	3097.2	3108.6	3098.8	3122.3	3111.7	3108.6	3131.4
15°	3050.9	3056.2	3066.8	3061.5	3085.8	3096.5	3083.6	3109.4	3098.8	3092.7	3113.2
17.5°	2997.7	3000.7	3008.3	3003.0	3028.8	3035.7	3021.2	3047.1	3037.2	3026.6	3046.3
20°	2919.4	2917.9	2922.5	2920.2	2941.5	2945.3	2936.1	2955.1	2943.7	2937.7	2949.1
22.5°	2822.2	2820.6	2823.7	2817.6	2838.9	2841.2	2827.5	2850.3	2838.9	2827.5	2846.5
25°	2714.3	2705.9	2704.4	2706.7	2721.1	2723.4	2708.9	2725.7	2711.2	2702.1	2720.3
27.5°	2581.3	2570.6	2568.4	2570.6	2585.1	2574.4	2562.3	2574.4	2560.0	2551.6	2563.0
30°	2417.1	2402.0	2395.1	2390.6	2405.8	2402.0	2373.8	2387.5	2364.7	2352.6	2360.9
32.5°	2196.0	2187.7	2169.4	2158.8	2173.2	2144.4	2126.9	2126.9	2117.8	2097.2	2101.8
35°	1889.0	1876.1	1859.4	1850.3	1852.6	1813.8	1784.9	1791.0	1760.6	1755.3	1757.6
37.5°	1500.7	1479.5	1473.4	1454.4	1459.0	1424.8	1385.2	1386.0	1370.0	1353.3	1348.0
40°	1127.6	1123.8	1117.8	1101.8	1107.9	1070.7	1055.5	1056.2	1045.6	1033.4	1039.5
42.5°	871.6	859.4	855.6	850.3	851.8	845.7	826.0	828.3	819.1	816.1	813.1
45°	708.2	695.3	686.2	690.7	690.7	683.9	676.3	680.8	676.3	670.2	673.2
47.5°	583.6	571.4	566.9	566.1	571.4	566.9	559.3	560.8	560.0	557.7	556.2
50°	465.8	462.8	459.0	456.7	459.0	457.4	450.6	454.4	456.7	449.1	451.4
52.5°	354.9	354.9	354.1	348.8	353.3	348.8	348.0	349.5	347.3	344.2	343.5
55°	259.9	257.6	253.8	253.0	254.6	253.0	251.5	252.3	253.8	246.2	246.2
57.5°	177.8	176.3	174.0	174.0	177.0	173.3	171.0	174.0	171.0	167.9	167.9
60°	114.0	113.2	110.9	110.9	110.9	110.2	107.9	108.7	110.2	105.6	106.4
62.5°	68.4	66.1	65.3	64.6	65.3	64.6	64.6	63.8	63.1	63.1	60.8
65°	37.2	35.7	34.2	35.0	35.0	34.2	34.2	34.2	32.7	31.9	31.2
67.5°	19.0	17.5	17.5	16.7	16.7	16.7	16.7	16.0	16.0	16.0	15.2
70°	12.2	11.4	10.6	10.6	10.6	9.9	9.9	9.9	9.9	9.9	9.1
72.5°	8.4	7.6	6.8	6.8	6.8	6.1	6.1	6.1	6.1	5.3	5.3
75°	6.1	5.3	4.6	4.6	4.6	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	3.8	3.0	3.0	3.0	3.0	2.3	2.3	2.3	2.3	2.3	1.5
80°	2.3	2.3	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8
82.5°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P251216

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1	2892.1
2.5°	2984.8	2978.7	2982.5	3010.6	2998.5	2994.7	2962.7	2990.9
5°	3020.5	3015.9	3015.9	3047.8	3033.4	3030.4	2999.2	3023.5
7.5°	3053.9	3049.4	3050.1	3082.8	3071.4	3066.8	3035.7	3060.0
10°	3097.2	3094.2	3095.0	3126.1	3114.0	3109.4	3077.5	3102.6
12.5°	3123.1	3118.5	3118.5	3151.9	3138.3	3131.4	3101.0	3125.3
15°	3103.3	3096.5	3096.5	3129.9	3114.7	3104.8	3078.2	3101.0
17.5°	3035.7	3028.8	3028.8	3057.7	3046.3	3031.9	3004.5	3025.8
20°	2941.5	2933.1	2930.8	2964.3	2948.3	2935.4	2911.1	2931.6
22.5°	2835.1	2831.3	2824.4	2857.9	2843.4	2829.8	2803.9	2819.9
25°	2707.4	2701.3	2694.5	2727.2	2712.7	2699.1	2678.5	2691.5
27.5°	2548.6	2549.4	2545.6	2571.4	2557.0	2549.4	2524.3	2545.6
30°	2356.4	2348.0	2345.0	2375.4	2361.7	2351.8	2320.6	2341.2
32.5°	2105.6	2093.4	2077.5	2111.7	2088.1	2079.8	2053.2	2082.8
35°	1740.9	1737.1	1722.6	1751.5	1738.6	1723.4	1706.7	1731.7
37.5°	1345.7	1348.8	1347.3	1354.9	1347.3	1337.4	1319.1	1310.0
40°	1027.3	1019.7	1013.7	1027.3	1011.4	1011.4	1000.8	1012.1
42.5°	805.5	802.4	810.0	813.1	803.9	802.4	800.9	800.1
45°	664.9	664.9	666.4	669.4	666.4	664.9	660.3	657.3
47.5°	547.9	550.9	547.9	557.7	552.4	550.9	541.8	545.6
50°	443.8	440.0	443.8	446.8	447.6	443.0	438.4	440.7
52.5°	344.2	338.1	336.6	341.2	338.1	338.1	335.1	334.3
55°	242.4	244.7	240.9	244.7	243.2	240.9	238.6	241.6
57.5°	164.1	164.9	163.4	165.7	161.9	162.6	161.9	161.1
60°	106.4	103.3	103.3	105.6	101.8	101.8	101.1	101.1
62.5°	60.8	60.0	60.0	59.3	58.5	58.5	58.5	57.0
65°	31.2	30.4	29.6	29.6	29.6	29.6	28.9	28.9
67.5°	15.2	14.4	14.4	15.2	14.4	14.4	14.4	14.4
70°	9.1	9.1	8.4	9.1	8.4	8.4	8.4	8.4
72.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	2.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)